Docket 5000-1-421

## IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A system for integrating broadcast and communication technologies, comprising:

an optical-line terminal (OLT) for receiving one or more broadcast signals and one or more external data-communication signals, for converting the received signals and for combining the converted signals in the form of an optical signal, and transmitting the optical signal according to an optical wavelength-division multiplexing (WDM);

an optical-network unit (ONU) for separating the optical signal transmitted from the OLT into the one or more broadcast signals and the one or more communication signals and transmitting only the broadcast signal(s) selected by a user from said one or more broadcast signals and the communication signals, which are multiplexed in an optical output signal from the ONU according to a predetermined time slot assigned to the user; and,

a user gateway for distributing the optical output signal from the ONU to the user;

wherein the ONU comprises:

a WDM optical demultiplexer for demultiplexing the signal output from the OLT;

a broadcast-signal processor for converting the broadcast signal demultiplexed by

the WDM optical demultiplexer opto-electrically;

a zapping-protocol processor for outputting information of at least one channel selected by the user from the signal output from the broadcast-signal processor, wherein said zapping-protocol processor receives digital broadcast signals for all the channels

Docket 5000-1-421

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from the broadcast-signal processor, wherein a protocol for selecting a broadcast signal conforms to a related standard;

a switch for opto-electrically converting the communication signal demultiplexed by the WDM optical demultiplexer, for electro-optically converting upstream information from the user to transfer the converted upstream information to the OLT, and for transferring the at least one channel selected by the user to the zapping-protocol processor; and,

a convergence unit for outputting, in the form of the time slot-based optical signal, the signal selected by the user and outputted from the zapping-protocol processor and the communication-signal output from the switch.

- 2. (Previously Presented) The system as set forth in claim 1, wherein the OLT optically multiplexes broadcast signals into a synchronous-digital-hierarchy (SDH)/synchronous-optical-network (SONET) signal based on time-division multiplexing (TDM) and optically multiplexes communication signals into a Gigabit-Ethernet signal, and wherein TDM-based data is transmitted during broadcasting without using a complex modulation scheme.
- 3. (Original) The system as set forth in claim 1, wherein the user gateway is further operative to transmit upstream data sent by the user to the ONU.
- 4. (Original) The system as set forth in claim 1, wherein the ONU is further operative to process upstream data sent by the user.

Docket 5000-1-421

## 5. (Canceled)

- 6. (Currently Amended) The system as set forth in claim 51, wherein the broadcast-signal processor receives and opto-electrically converts an SDH/SONET optical signal from the WDM optical demultiplexer, then processes the opto-electrically converted signal on the basis of an MPEG2 multi-program transport stream (MPTS), and finally transfers the processed signal to the zapping-protocol processor.
- 7. (Original) The system as set forth in claim 6, wherein the SDH/SONET optical signal is a synchronous-transfer mode (STM)-n or synchronous-transfer-signal level (STS)-n signal.
- 8. (Original) The system as set forth in claim 1, wherein the user gateway comprises:

wherein the user gateway comprises:

an input/output unit for opto-electrically converting the optical signal from the ONU and electro-optically converting upstream information from the user and transmitting the converted upstream information to the ONU;

- a time-slot separator for separating the signal output from the input/output unit into the broadcast signal and the communication signal;
- a distributor for distributing the broadcast signal from the time-slot separator to an external broadcast receiver and outputting the communication signal separated by the

Docket 5000-1-421

time-slot separator to a communication processor;

the communication processor for transferring the communication signal from the time slot separator to the user and transferring the upstream information from the user to the input/output unit; and,

a user -input unit for transferring information indicative of at least one broadcast channel selected by the user to the input/output unit